Abstract:

This invention relates to a process for producing a multiplicity of micro fluidic arrangements from a plate-shaped composite structure, wherein each arrangement comprises a groove structure which forms flow channels and the dimensions of which are in the micrometre range. The lines for the optional subsequent mechanical separation of bridging groove structures are joined to each other and are partly or completely filled with a filling medium before mechanical machining. The medium is selected so that it is not removed from the groove structures either by the mechanical machining or by aids used during mechanical machining. Afterwards, however, the filling medium is removed from the groove structures by suitable measures. The groove structures are thereby prevented from becoming blocked due to mechanical contaminants. An atomiser which is provided with the nozzle arrangement is also proposed.

(Figure 1)